

Listing of Claims:

1. (original) A condensate trap comprising a vortex chamber, an inlet and a single outlet, the inlet being disposed to admit fluid into the chamber in a manner to promote a rotational flow of the fluid in the chamber about a longitudinal axis of the chamber, and the outlet comprising an escape aperture at an axial end of the chamber.

2.(original) A condensate trap as claimed in Claim 1, wherein at least a portion of the vortex chamber is cylindrical.

3.(currently amended). A condensate trap as claimed in Claim 1, wherein at least a portion of the vortex chamber is frusto conical.

4.(currently amended) A condensate trap as claimed in Claim 2, wherein the cylindrical portion adjoins the wider diameter end of the frusto conical portion.

5.(original) A condensate trap as claimed in Claim 4, wherein the inlet opens into the cylindrical portion.

6.(currently amended) A condensate trap as claimed in Claim 3, wherein the escape aperture is disposed at the narrower end of the frusto conical portion.

7.(currently amended) A condensate trap as claimed in Claim 1, wherein the escape aperture is situated on the longitudinal axis of the vortex chamber.

8.(currently amended) A condensate trap as claimed in Claim 1, wherein the escape aperture is provided in a transverse end wall of the vortex chamber.

9.(currently amended) A condensate trap as claimed in Claim 1, wherein the vortex chamber is provided in a control element supported by a body provided with inlet and outlet passages, the inlet passage communicating with the inlet to the chamber and the outlet passage communicating with the escape aperture.

10.(original claim) A condensate trap as claimed in Claim 9, wherein the control element and the body abut each other at respective contact surfaces, the inlet and outlet passages opening at respective ports on the contact surface of the body, and the inlet and escape aperture communicating with respective ports at the contact surface of the control element.

11.(original claim) A condensate trap as claimed in Claim 10, wherein the control element is engageable with the body in any one of the plurality of different rotational positions about the port communicating with the escape aperture.

12.(original claim) A condensate trap as claimed in Claim 11, wherein the port communicating with the inlet comprises a circular groove in the contact face, centered on the port communicating with the escape aperture.

13.(currently amended) A condensate trap as claimed in Claim 9, wherein the inlet is one of a plurality of inlets which are directed tangentially of the chamber and are distributed equally around the chamber.

14.(currently amended) A condensate trap as claimed in Claim 9, wherein the control element is secured to the body by a cap.

15.(original claim) A condensate trap as claimed in Claim 14, wherein the chamber is open at a face of the control element opposite the contact surface, the chamber being closed by the cap.

16.(currently amended) A condensate trap as claimed in Claim 1, further comprising a second inlet which directs the fluid towards the longitudinal axis of the chamber.

17.(original claim) A condensate trap as claimed in Claim 16, wherein the second inlet is provided at the same longitudinal position along the vortex chamber as the first inlet.

18.(currently amended) A condensate trap as claimed in claim 16, further comprising switch means to select either the first or second inlet to provide the fluid into the chamber.

19.(original claim) A condensate trap as claimed in Claim 18, wherein the switch means is respective to temperature sensing means, the temperature sensing means sensing the temperature of the fluid upstream of the trap.

20.(currently amended) A condensate trap as claimed in Claim 1, wherein the diameter of the escape aperture is not greater than 40 mm.

21.(currently amended) A condensate trap as claimed in Claim 20, wherein the diameter of the escape aperture is not greater than 30 mm.

22.(cancelled).

23.(currently amended) A steam plant provided with a condensate trap comprising a vortex chamber, an inlet and a single outlet, the inlet being disposed to admit fluid into the chamber in a manner to promote a rotational flow of the fluid in the chamber about a longitudinal axis of the chamber, and the outlet comprising an escape aperture at an axial end of the chamber.